

Patent Abstracts of Japan

PUBLICATION NUMBER : JP9012600
PUBLICATION DATE : 14-01-1997
APPLICATION NUMBER : JP19950180698
APPLICATION DATE : 22-06-1995

VOL: 1997 NO: 5
AB. DATE : 30-05-1997 PAT: A 9012600
PATENTEE : SHISEIDO CO LTD
PATENT DATE: 14-01-1997

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INT.CL. : C07K16/18 ;
C12P21/08 ;
G01N33/577
C12P21/08 C12R1/91
C12N5/10 C12R1/91
C12N5/10 ;
C12N15/02

TITLE : MONOCLONAL ANTIBODY AGAINST SODIUM HYALURONATE ITS PRODUCTION

ABSTRACT : PURPOSE: To produce the subject new antibody, produced by a fused cent or a cell, capable of producing an antibody, prepared by bonding a protein, etc., to sodium hyaluronate reduced in molecular weight and immunizing a mouse with the resultant substance to a cell of a myeloma and capable of specifically recognizing the sodium hyaluronate.

CONSTITUTION: A protein (e.g. hemocyanin) or a phospholipid (e.g. phosphatidylethanolamine) is introduced into sodium hyaluronate reduced in molecular weight to form a covalent combination, which is then used as an antigen and administered to immunize a BALB/C mouse therewith. Additional immunization is carried out to collect a cell of the spleen after the final immunization. The collected cell is fused to a cell of a murine myeloma in the presence of polyethylene glycol and then selectively cultured in an HAT culture medium to provide a hybridoma, which is further screened according to the enzyme-linked immunosorbent assay (ELISA), etc., to select a strain capable of producing an antibody having reactivity with sodium hyaluronate.

The selected strain is cloned by a limiting dilution method and then cultured in a culture medium, etc., to afford the new monoclonal antibody against the sodium hyaluronate.